

DRILL HOLES

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BORDER REV. DATE: June 11, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a battery backup system for the existing Traffic Control signal at the intersection of US 40 and Ridge Road in Howard County. Additionally all traffic signal heads shall be upgraded to LED traffic signal heads. US 40 is assumed to run in an east - west direction.

II. INTERSECTION OPERATION

- The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
- A new NEMA size "6" base-mounted cabinet with battery back-up shall be installed at this intersection.

III. SPECIAL NOTES

- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- Sha signal shop shall remove master system controller with harnesses from existing system.

The contact persons for District #7 are as follows:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: (310) 624-8141

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: (310) 624-8106

Ms Andrea Abend
District Engineer - Utility
Phone: (301) 624-8110

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

The power company representative is:

Mr. Steve Schneider
Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-859-9310

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.		

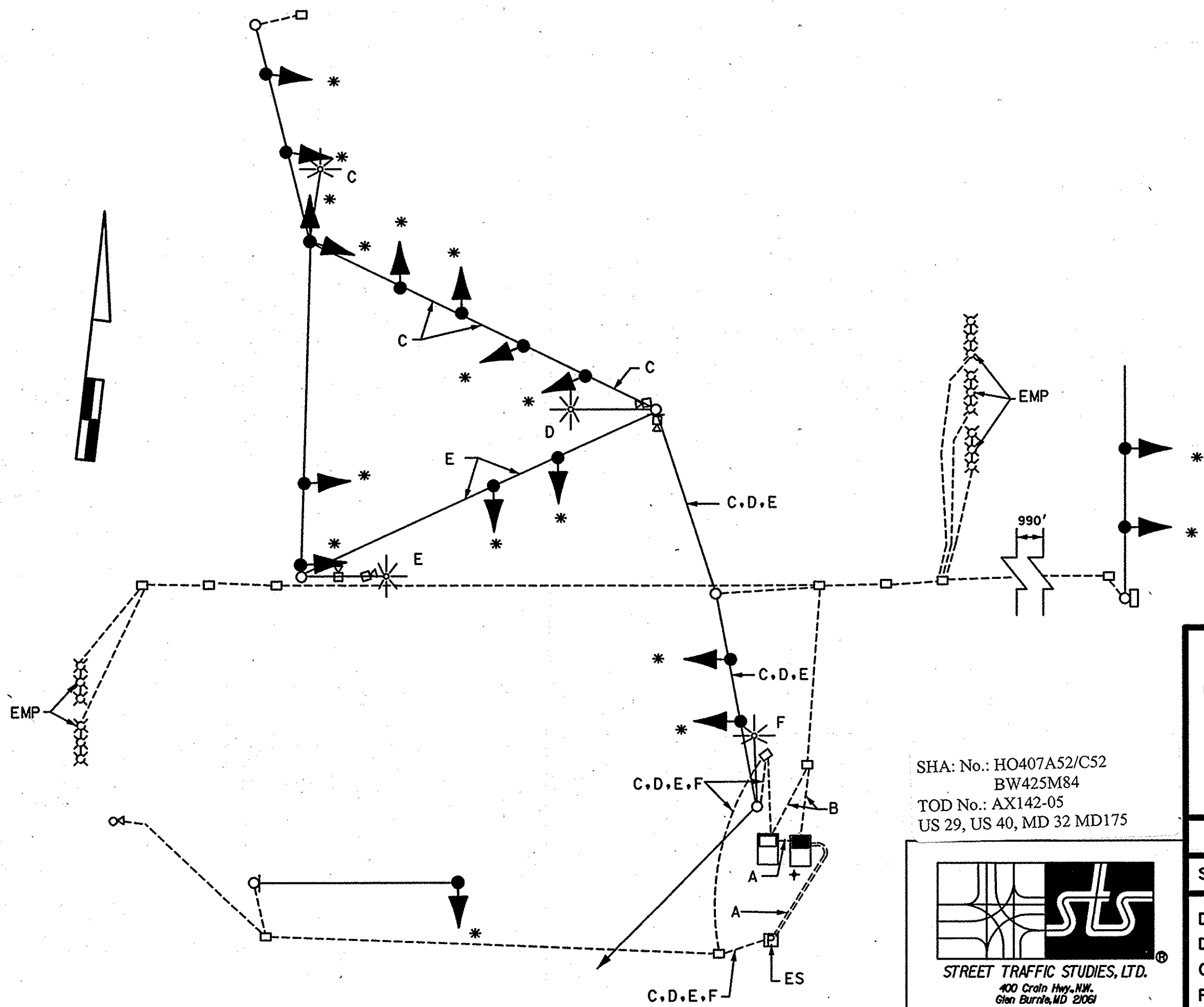
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment. Is covered under 5271agi sheet	
2002	Test Pit Excavation	1 C.Y.
8015	LED signal head modules (any size).	42 EA
8022	Remove and dispose of existing material and equipment per assignment. 5271agi sheet	1 EA
8036	Schedule 80 rigid PVC conduit up tp 4" - trenching.	25 L.F.
8046	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	145 L.F.
8058	Electrical cable - 7 conductor (No. 14 AWG).	45 L.F.
8059	Electrical cable - 2 conductor (No. 12 AWG) TC.	1090 L.F.
Neg.	Cabinet size "6" and battery back-up system.	1 EA

PHASE CHART

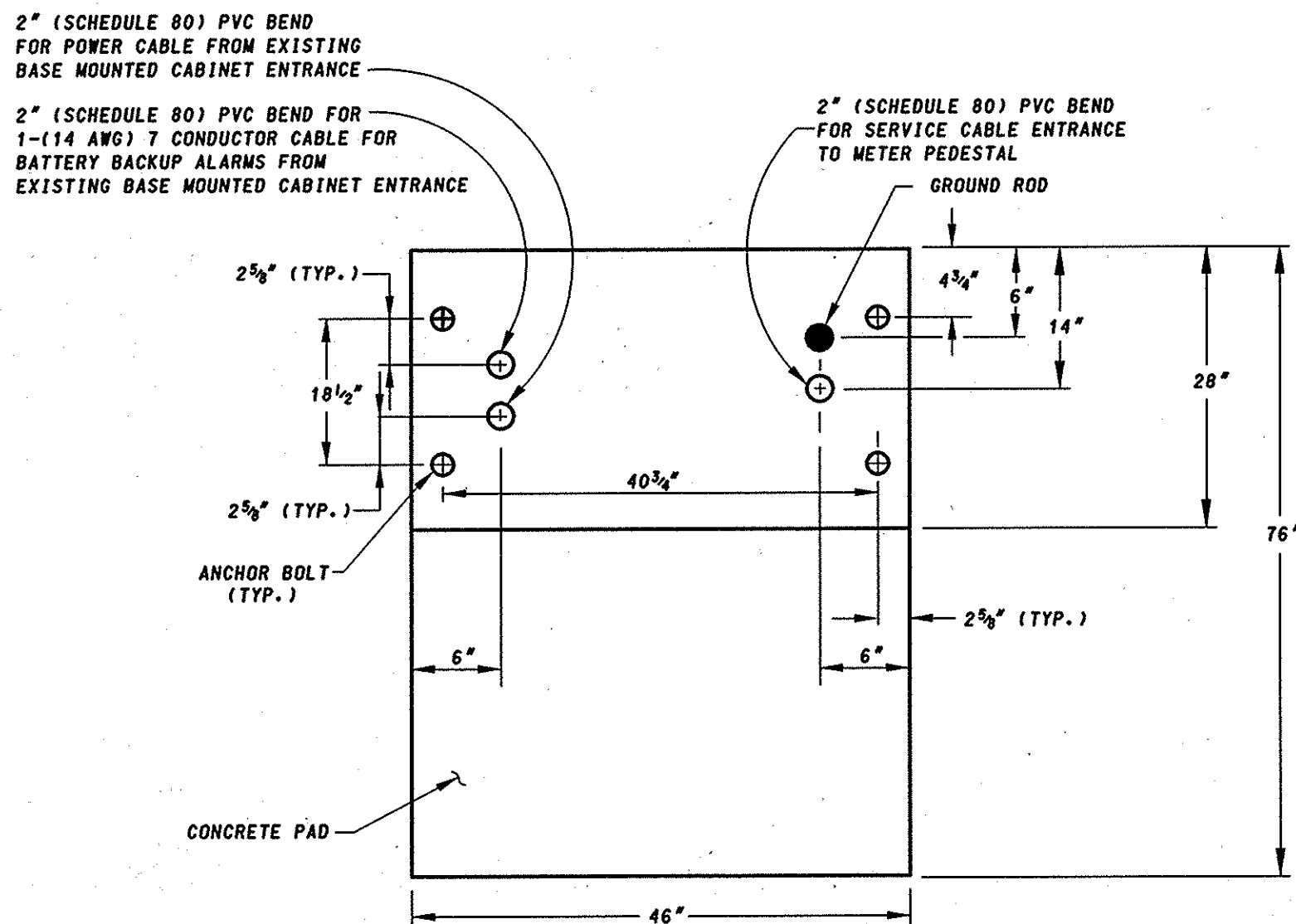
THERE IS NO PHASE CHART FOR THIS PROJECT.

WIRING DIAGRAM



WIRING KEY

- A - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- B - 7 CONDUCTOR ELECTRICAL CABLE (NO 14 A.W.G.) FOR ALARM
- C - 2 CONDUCTOR TRAY CABLE (NO 12 A.W.G.)
- EMP - EXISTING MICROLOOP PROBE
- * - USE EXISTING CABLE
- ES - EXISTING SERVICE TO BE MAINTAINED BY BGE
- + - GROUND ROD

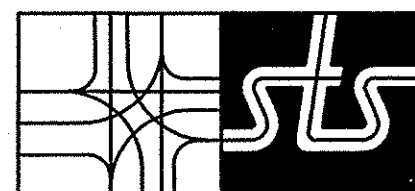


TYPICAL PLAN VIEW FOR BATTERY BACKUP CABINET

NOTE:

- ALL CONDUIT BENDS ARE SUBJECT TO CHANGE AS PER CABINET LOCATION.
- REFER TO WIRING DIAGRAM ON THIS SHEET FOR SPECIFIC DETAILS.

SHA: No.: HQ407A52/C52
BW425M84
TOD No.: AX142-05
US 29, US 40, MD 32 MD175



STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy., NW
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-5537

5271C61.dgn

T-79

PLOTTED: 8/24/2004
FILE: 8/FILE*



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

US 40 AND RIDGE ROAD

ELLICOT CITY, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 4/18/07 CONTRACT NO. AX1425185

DESIGNED BY JWA COUNTY HOWARD
DRAWN BY RC LOGMILE 130041018.56
CHECKED BY TIMS NO. 1288
F.A.P. NO. TOD NO.

TS NO. 951L-64 DRAWING NO. 2 OF 2 SHEET NO. OF